Connections and Setup
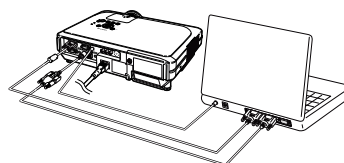
Connecting the Projector to Other Devices

✎ Note

• Before connecting, make sure the power cord of the projector from the AC outlet is unplugged, and that the devices to be connected are turned off. After making all connections, turn on the projector and then the other devices.
  When connecting a computer, ensure that it is the last device to be turned on after all the connections are made.
• Ensure that you have read the operation manuals of the devices to be connected before making connections.
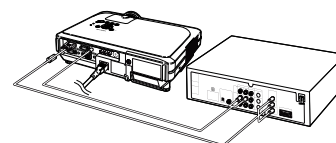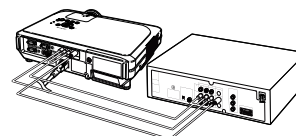
A computer using:

■ **An RGB cable and a computer audio cable (commercially available) (See page 17.)**
■ **A DIN-D-sub RS-232C adaptor and an RS-232C serial control cable (commercially available) (See page 22.)**
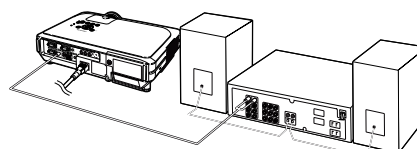
Component video or audio-visual equipment:

■ **A VCR, Laser disc player or other audio-visual equipment (See page 19.)**
■ **A DVD player or DTV* decoder (See page 20.)**

*DTV is the umbrella term used to describe the new digital television system in the United States.

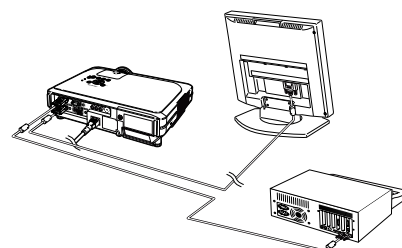**An amplifier or audio components using:**
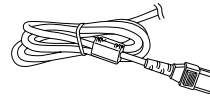
■ **An audio cable (commercially available) (See page 21.)**

A monitor using:

■ **An RGB cable (See page 23.)**
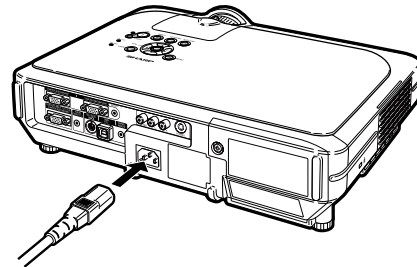■ **A computer RGB cable (commercially available) (See page 23.)**

Supplied accessory	Power code

Plug in the supplied power cord into the AC socket on the rear of the projector.

Connecting the Projector to a Computer

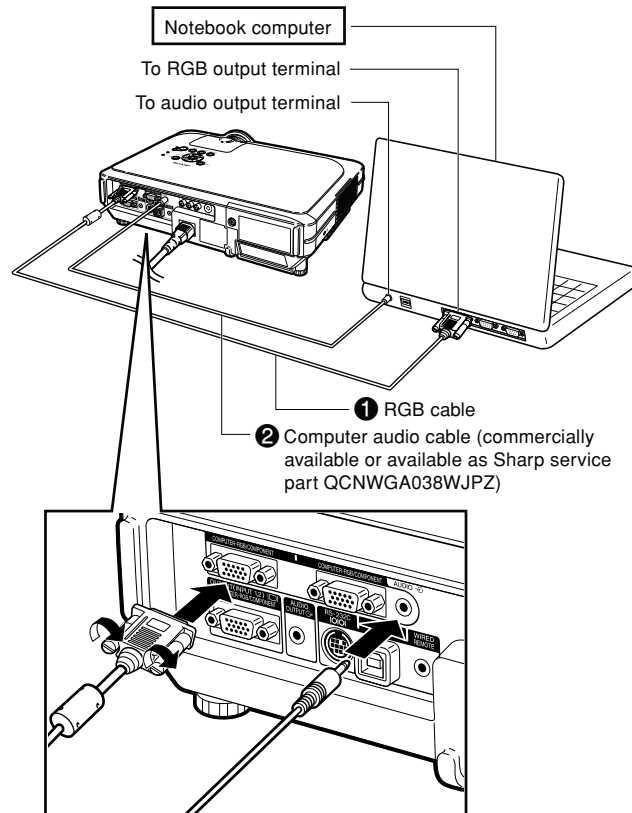| Supplied accessory	RGB cable

1 **Connect the projector to the computer using the supplied RGB cable.**
 • Secure the connectors by tightening the thumbscrews.

2 **To input audio signal, connect the projector to the computer using the computer audio cable (commercially available or available as Sharp service part QCNWGA038WJPZ).**
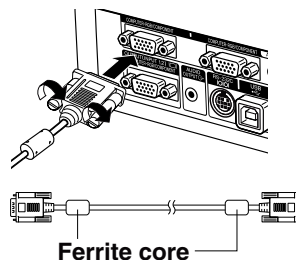
✎ Note

• See page **93** "Computer Compatibility Chart" for a list of computer signals compatible with the projector. Use with computer signals other than those listed may cause some of the functions not to work.
• When connecting the projector to a computer in this way, select "RGB" for "Signal Type" in the "Picture" menu. See page **46**.
• A Macintosh® adaptor may be required for use with some Macintosh® computers. Contact your nearest Macintosh® Dealer.
• Depending on the computer you are using, an image may not be projected unless the computer's external output port is switched on. (e.g. Press "Fn" and "F5" keys simultaneously when using a SHARP notebook computer). Refer to the specific instructions in your computer's operation manual to enable your computer's external output port.

Notebook computer
To RGB output terminal
To audio output terminal

❶ RGB cable
❷ Computer audio cable (commercially available or available as Sharp service part QCNWGA038WJPZ)

Connecting the Projector to Other Devices

Connecting the thumbscrew cables

■ Connect the thumbscrew cable making sure that it fits correctly into the terminal. Then, firmly secure the connectors by tightening the screws on both sides of the plug.

■ Do not remove the ferrite core attached to the RGB cable.

Ferrite core

"Plug and Play" function (when connecting to a 15-pin terminal)

■ This projector is compatible with VESA-standard DDC 1/DDC 2B. The projector and a VESA DDC compatible computer will communicate their setting requirements, allowing for quick and easy setup.
■ Before using the "Plug and Play" function, be sure to turn on the projector first and the connected computer last.
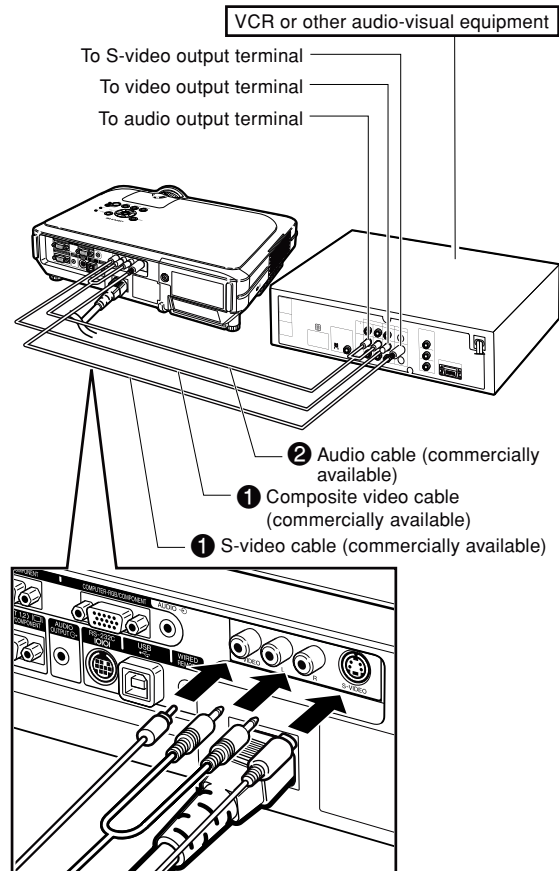
✎ Note

• The DDC "Plug and Play" function of this projector operates only when used in conjunction with a VESA DDC compatible computer.

Connecting to Video Equipment

1 **Connect the projector to the video equipment using an S-video cable or a composite video cable (both commercially available).**

2 **Connect the projector to the video equipment using an audio cable (commercially available).**

✎Note

• The INPUT 4 (S-VIDEO) terminal uses a video signal system in which the picture is separated into color and luminance signals to realize a higher-quality image. To view a higher-quality image, use a commercially available S-video cable to connect the INPUT 4 terminal on the projector and the S-video output terminal on the video equipment.

VCR or other audio-visual equipment

To S-video output terminal
To video output terminal
To audio output terminal

❷ Audio cable (commercially available)
❶ Composite video cable (commercially available)
❶ S-video cable (commercially available)

Connecting the Projector to Other Devices

Optional cable	3RCA to 15-pin D-sub cable AN-C3CP2 (9'10" (3.0 m))

To analog component output terminal

To audio output terminal

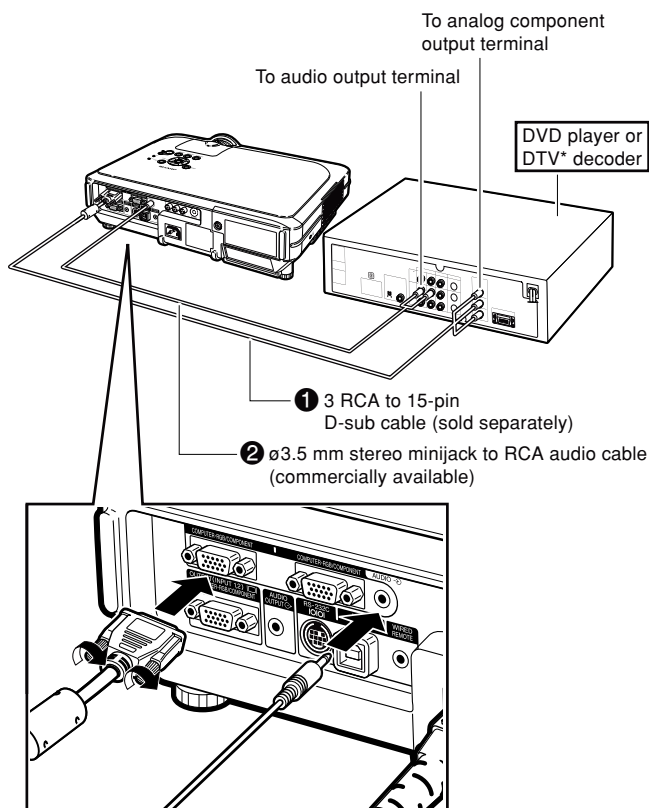DVD player or DTV* decoder

1 **Connect the projector to the video equipment using the 3 RCA to 15-pin D-sub cable (sold separately).**

2 **Connect the projector to the video equipment using a ø3.5 mm stereo minijack to RCA audio cable (commercially available).**

❶ 3 RCA to 15-pin D-sub cable (sold separately)

❷ ø3.5 mm stereo minijack to RCA audio cable (commercially available)

Note

• When connecting the projector to the video equipment in this way, select "Component" for "Signal Type" in the "Picture" menu. See page **46**.

• A ø3.5 mm stereo minijack to RCA audio cable (commercially available) is required for audio input.
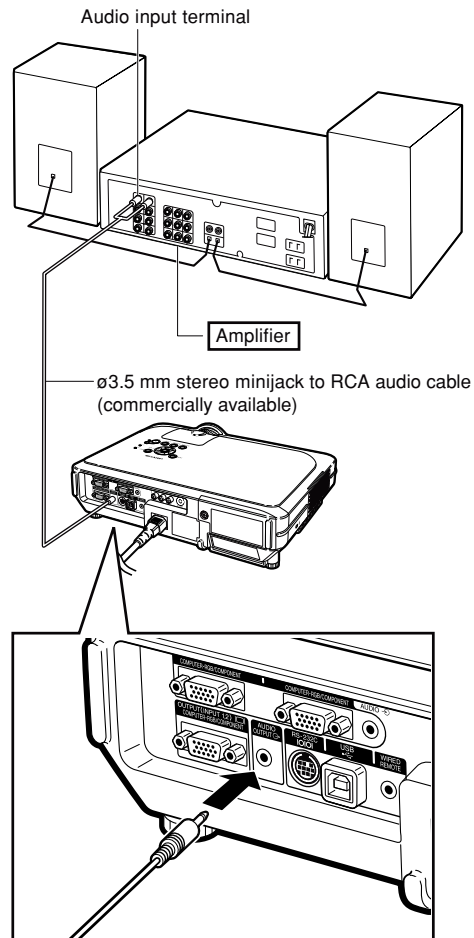
Connecting to an Amplifier

Audio input terminal

Connect the projector to the amplifier using a ø3.5 mm stereo minijack to RCA audio cable (commercially available).
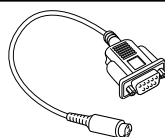
📖 Info

- By using external audio components, the volume can be amplified for better sound.
- The AUDIO OUTPUT terminal allows you to output audio to audio components from the selected AUDIO input terminal (for INPUT 1 and 2) or AUDIO (L/R) input terminals (for INPUT 3 and 4) connected to audiovisual equipment.
- For details on Variable Audio Output (VAO) and Fixed Audio Output (FAO), see page **63**.
- A ø3.5 mm stereo minijack to RCA audio cable (commercially available) is required for audio input.

Amplifier

ø3.5 mm stereo minijack to RCA audio cable (commercially available)

Controlling the Projector by a Computer

Supplied accessory | DIN-D-sub RS-232C adaptor

RS-232C terminal

Desktop computer

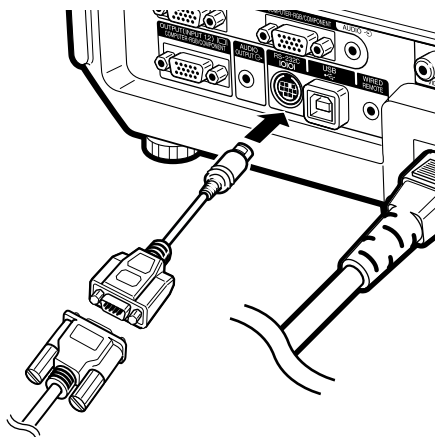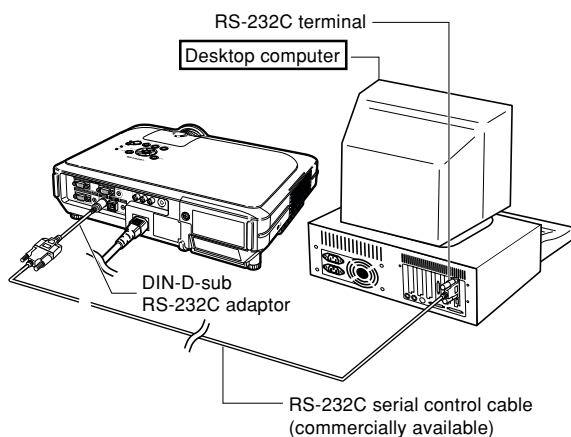DIN-D-sub RS-232C adaptor

RS-232C serial control cable (commercially available)

89

1 **Connect the supplied DIN-D-sub RS-232C adaptor to an RS-232C serial control cable (commercially available).**

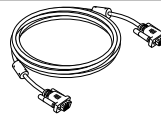**2** **Use the above cables to connect the projector and the computer.**

✎ Note

• Do not connect or disconnect an RS-232C serial control cable to or from the computer while it is on. This may damage your computer.
• The RS-232C function may not operate if your computer terminal is not correctly set up. Refer to the operation manual of the computer for details.
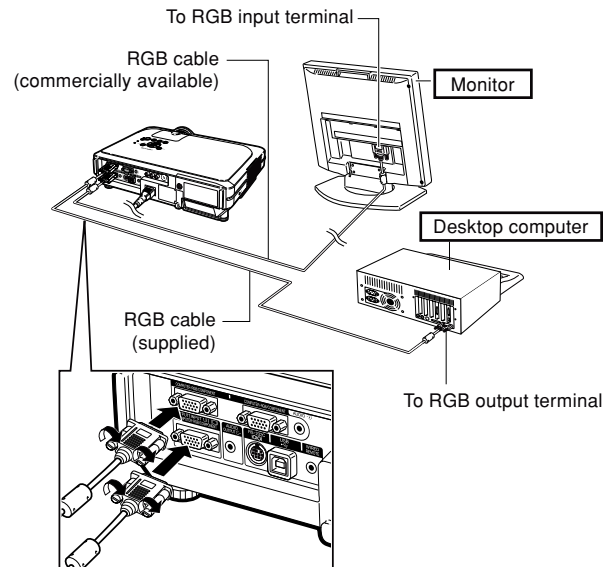• See page **88** for connection of an RS-232C serial control cable.
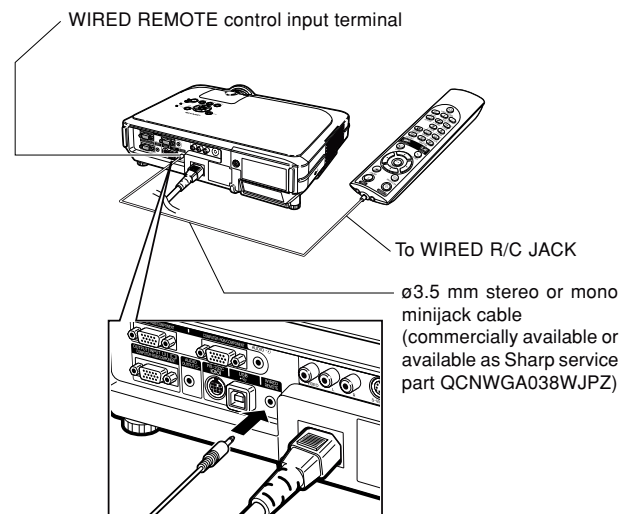
Connecting to a Monitor

Supplied accessory — RGB cable

To RGB input terminal

RGB cable (commercially available)

Monitor

Desktop computer

RGB cable (supplied)

To RGB output terminal

1 **Connect the projector to the computer and monitor using RGB cables (one is supplied, the other is commercially available).**

2 **In the "Options(1)" menu, select "Economy Mode", "Mntr. out/RS232" and then "ON". (see page 69.)**

✎ Note
• Analog RGB signals aswell as Component signals can be output to the monitor.

Using as a Wired Remote Control

WIRED REMOTE control input terminal

To WIRED R/C JACK

ø3.5 mm stereo or mono minijack cable (commercially available or available as Sharp service part QCNWGA038WJPZ)
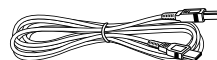
✎ Note
• FORWARD/BACK presentation control cannot be used when the remote control is wired to the projector. To utilize this feature, disconnect the cable from the remote control.

Using the Wireless Presentation Function of the Remote Control

The Wireless Presentation function on the projector works the same as the [Page Up] and [Page Down] keys on a computer keyboard. It can also be used to move forward or backward when viewing images of presentation software such as Microsoft® PowerPoint®.
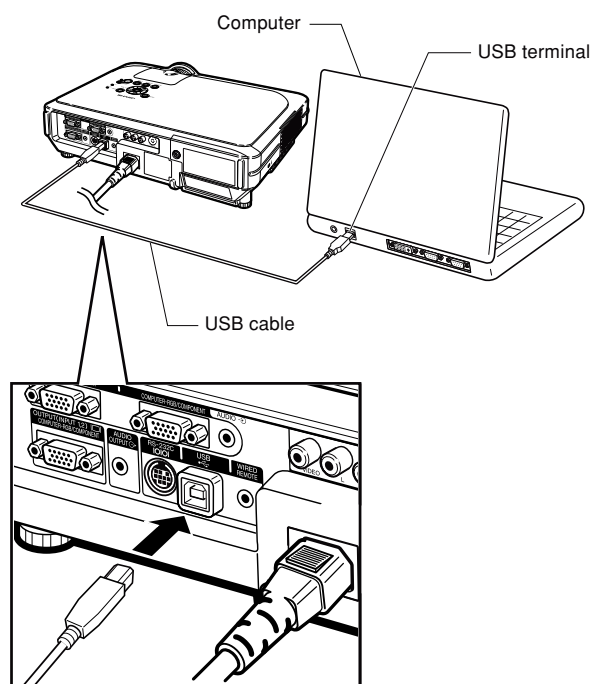
Supplied accessory ——— USB cable

1 **Connect the projector to the computer using the supplied USB cable.**
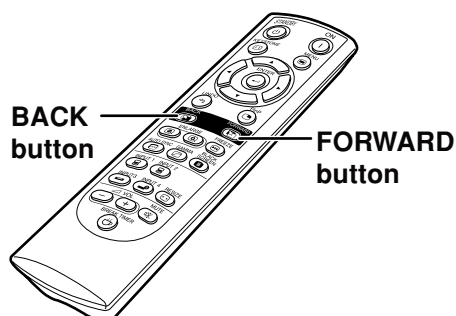
✎Note

• This function only works with the Microsoft® Windows® OS and Mac® OS. However, this function does not work with the following operation systems that do not support USB.
   • Versions earlier than Windows® 95.
   • Versions earlier than Windows® NT4.0.
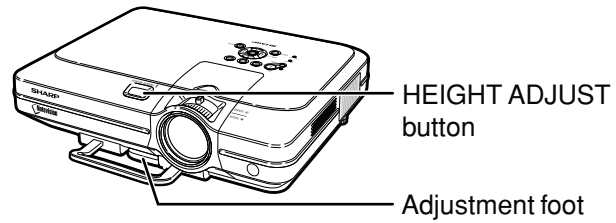   • Versions earlier than Mac® OS 8.5.

Computer

USB terminal

USB cable

2 **Press** BACK **or** FORWARD **while using presentation software on your computer.**

• Press BACK to move the page up.
• Press FORWARD to move the page down.

BACK button

FORWARD button

Setup

1 Press HEIGHT ADJUST.

HEIGHT ADJUST
button

Adjustment foot

Adjustment feet
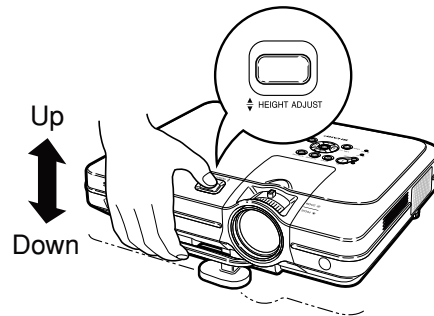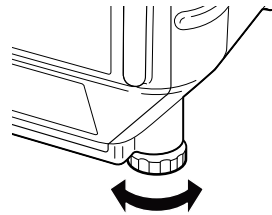
2 Lift the projector to adjust its height and remove your finger from HEIGHT ADJUST.

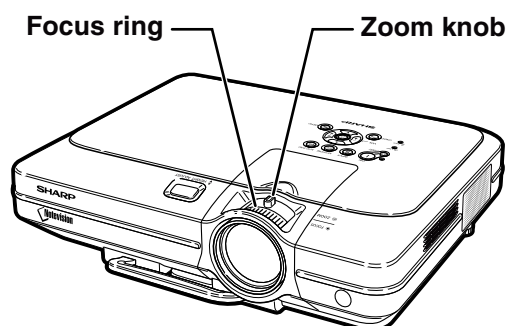**3** Rotate the adjustment feet at the back of the projector for fine adjustment.

Up

Down

✎Note

• When returning the projector to its original position, hold the projector firmly, press **HEIGHT ADJUST** and then gently lower it.
• The projector is adjustable up to approximately 12 degrees on the front and 3 degrees on the back from the standard position.
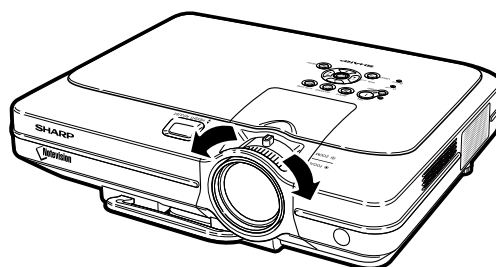
📖 **Info**

• Do not press **HEIGHT ADJUST** when the adjustment foot is extended without firmly holding the projector.
• Do not hold the lens when lifting or lowering the projector.
• When lowering the projector, be careful not to get your finger caught in the area between the adjustment foot and the projector.

Setup

Focus ring ——————   —————— Zoom knob

1 **The focus is adjusted by rotating the focus ring.**

2 **Zooming is adjusted by moving the zoom knob.**

Zoom out

Zoom in